

***LineUp With Math™* Alignment**
South Dakota Mathematics Content Standards
May 17, 2004

Geometry Standards

Indicator 2: Use properties of geometric figures to solve problems from a variety of perspectives.

Standard and Supporting Skills

9-12.G.2.3. (Application)
 Use proportions to solve problems.

LineUp With Math™ Activities

--Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Measurement Standards

Indicator 1: Apply measurement concepts in practical applications.

Standard and Supporting Skills

9-12.M.1.1. (Comprehension)
 Choose appropriate unit label, scale, and precision.

LineUp With Math™ Activities

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

--Use an interactive simulator to identify distance, rate, time conflicts in air traffic control problems and resolve the conflicts by varying plane speeds or changing plane routes.

9-12.M.1.2. (Comprehension)
 Use suitable units when describing rate of change.

--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Number Sense Standards

Indicator 3: Develop conjectures, predictions, or estimations to solve problems and verify or justify the results.

Standard and Supporting Skills

9-12.N.3.1. (Analysis)
 Use estimation strategies in problem situations to predict results and to check the reasonableness of results.

LineUp With Math™ Activities

--Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.